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To the Director of the U.S. Patents and Trademark Office

103498595

original documents or copy thereof

12/083521

1. **Name of conveying party(ies):**
 1) Katsutoshi GOTO
 2) Masahiro YAMAKAGE
 3) Tomoyasu IWASE
 4) Tokio OKANO
 5) Yohihiro DEGUCHI
 6) Masanobu MIZOGUCHI
 7) Atushi TAKITA
 8) Norihiro FUKUDA

4-11-08

Additional name(s) of conveying party(ies) attached? Yes No

2. **Name and address of receiving party(ies):**
 Name: 1) TOYOTA JIDOSHA KABUSHIKI KAISHA

Internal Address:

3. **Nature of conveyance/Execution Date(s):**
 Execution Dates April 1, 2008

Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other

Street Address: 1, Toyota-cho, Toyota-shi, Aichi 471-8571 Japan

City:

State: Zip Code:

Additional name(s) & Address(es) attached?
 Yes No

4. **Application number(s) or patent number(s):**

A. Patent Application Number(s):

Additional numbers attached? Yes No

This document is being filed together with a new application.

B. Patent Number(s):

5. **Name and address of to whom correspondence concerning document should be mailed:**

Name: Mr. Ernest F. Chapman

6. **Total number of applications and registrations involved:** 1

7. **Total fee (37 CFR 3.41): \$40**

Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed (Please charge deficiency to deposit account)
 None required (government interest not affecting title)

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Street Address: 901 New York Avenue, NW

City: Washington, D.C.

State: Zip: 20001-4413

8. **Payment Information**

a. Credit Card Last 4 Numbers _____
 Expiration Date _____

b. Deposit Account No.: 06-0916

Authorized User Name _____

8. **Statement and signature.**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ernest F. Chapman
 Reg. No. 25,961

Signature

ARTHUR S. GARRETT
 REG. NO. 20,338
 April 11, 2008
 Date

Total number of pages including cover sheet, attachments and documents: 5

12/083521

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 04853.0168
Attorney Customer Number: 22,852

AP17 Rec'd PCT/PTO 11 APR 2008

Name and Address of Additional Receiving Party:

- 2) **MITSUBISHI HEAVY INDUSTRIES, LTD.**
16-5, Konan 2-chome, Minato-ku,
Tokyo 108-8215 Japan

Attorney's Docket No.: _____

Assignment of Application

WHEREAS, I (WE) _____

Katsutoshi GOTO of Okazaki-shi, Aichi, Japan, Masahiro YAMAKAGE of Anjo-shi, Aichi, Japan, Tomoyasu IWASE of Aichi-gun, Aichi, Japan, Tokio OKANO of Toyota-shi, Aichi, Japan, Yoshihiro DEGUCHI, Masanobu MIZOGUCHI and Atushi TAKITA
of all Yokohama-shi, Kanagawa, Japan and Norihiro FUKUDA of Nagasaki-shi, Nagasaki, Japan

_____, respectively,

have invented certain new and useful improvements in: _____

EXHAUST GAS ANALYSIS METHOD AND EXHAUST GAS ANALYSIS APPARATUS

for which an application for Letters Patent was executed on _____

(Application No. PCT/JP2006/325566, filed 15 December, 2006), and

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA and
MITSUBISHI HEAVY INDUSTRIES, LTD.

(hereinafter referred to as "ASSIGNEE") having a place of business at:

1, Toyota-cho, Toyota-shi, Aichi 471-8571 Japan and16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215 Japan

, respectively, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his)

successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER L.L.P.**, of 901 New York Avenue, N.W. Washington, D.C. 20001-4413 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: April 1, 2008

Katsutoshi Goto

(Signature of inventor) **Katsutoshi GOTO**

Date: April 1, 2008

Masahiro Yamakage

(Signature of inventor) **Masahiro YAMAKAGE**

Date: April 1, 2008

Tomoyasu Iwase

(Signature of inventor) **Tomoyasu IWASE**

Date: April 1, 2008

Tokio Okano

(Signature of inventor) **Tokio OKANO**

Date: April 1, 2008

Yoshihiro Deguchi

(Signature of inventor) **Yoshihiro DEGUCHI**

Date: April 1, 2008

Masanobu Mizoguchi

(Signature of inventor) **Masanobu MIZOGUCHI**

Date: April 1, 2008

Atushi Takita

(Signature of inventor) **Atushi TAKITA**

Date: April 1, 2008

Norihiro Fukuda

(Signature of inventor) **Norihiro FUKUDA**